

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER			Hngton, D.C. 2023	1	
SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	
07/783,750	07/783,750 10/28/91 KENNEDY		1 01351		
			1474 1 7 1 1	EXAMINER	
RICHARD J. HICKS			FIUL LIND	HOLLINDEN, G	
DIRECTOR, PATENTS & LICENCING QUEEN'S UNIVERSITY			ART UNIT	PAPER NUMBER	
KINGSTON, O		3N€	1209	4	
s le a communication from the			DATE MAILED:	07/09/92	
his is a communication from the OMMISSIONER OF PATENTS	AND TRADEMARKS	our application,		*	
			. 1		
This application has been	avaminad 177	/	5/1/22 -		
		Responsive to communication filed on	1112 -	This action is made final.	
ortened statutory period for the to respond within the p	or response to this act eriod for response will	tion is set to expire monti I cause the application to become abandone	h(s), da ed. 35 U.S.C. 13	ays from the date of this letter.	
		E PART OF THIS ACTION:			
Notice of Reference		_	Patent Drawing, PT(, n.a.	
Notice of Art Cited Information on How	by Applicant, PTO-14	49. 4. Notice of i	nformal Patent App	J-848. lication, Form PTO-152.	
		anges, PTO-1474. 6			
SUMMARY OF AC	rion / l) /			ر م م	
Ciaims	7 15			are pending in the application.	
Of the above	, claims			withdrawn from consideration.	
Claims				_ have been cancelled.	
Ctaims					
Claims	4+5				
_				are rejected.	
Claims				are objected to.	
Claims		are	subject to restriction	on or election requirement.	
This application has	been filed with inform	al drawings under 37 C.F.R. 1.85 which are	acceptable for exar	mination purposes.	
☐ Formal drawings are	required in response	to this Office action.			
☐ The corrected or sut	stitute drawings have	been received on	Under 37 C 6	.R. 1.84 these drawings	
are acceptable	. not acceptable (s	see explanation or Notice re Patent Drawing	, PTO-948).	.n. 1.04 triese grawings	
☐ The proposed addition	onal or substitute she	et(s) of drawings, filed on	_ has (have) been	approved by the	
examiner. 🗀 disap	proved by the examin	er (see explanation).		1	
I. The proposed drawing correction, filed on, has been _ approved disapproved (see explanation).					
Acknowledgment is a	made of the claim for (priority under U.S.C. 119. The certified copy	has Deen rece	lived 🗆 not been received	
	ent application, serial				
Since this application	appears to be in con	dition for allowance except for formal matte	rs, prosecution as t	o the merits is closed in	
accordance with the	practice under Ex par	te Quayle, 1935 C.D. 11; 453 O.G. 213.		page to	
☐ Other					

07/783,750 Art Unit 1209

This Office Action is a response to the amendment filed on May 7, 1992 wherein claims 1-3 were canceled, claim 5 was added and Group III was elected without traverse. Currently, Claims 4 and 5 are pending in this application and will be examined on their merits.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

"The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention."

The specification is objected to under 35 U.S.C. 112, first paragraph, as failing to adequately teach how to make and/or use the invention, i.e. failing to provide an enabling disclosure. In particular, the amount of the protoporphyrin IX precursor which would be both safe and effective for the diagnosis of tissue abnormalities is not enabled. The specification fails to teach any range for diagnostic use (and in fact also fails to teach a range for therapeutic use). In addition, no examples of diagnostic use were taught. Particularly since the disclosure teaches that administration of said precursor can have toxic side effects (i.e. loss of motor nerve conduction), it would require undue experimentation to determine the diagnostic dosage which would be safe and effective.

Claims 4 and 5 are rejected under 35 U.S.C. 112, first paragraph, for the reasons set forth in the objection to the specification.

Claims 4 and 5 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, claim 1 is rendered indefinite by the term "--effective amount--" since the specification fails to disclose what an effective amount would be.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 4 and 5 are rejected under 35 U.S.C. § 103 as being unpatentable over Blumberg et al. (A), Gordon (B), and Fukuda et al. (C).

These claims appear to be directed towards a method of administering a precursor of protoporphyrin IX (e.g. 5-aminolevulinic acid) for detection of tissue abnormalities.

Blumberg et al. (col 1, lines 57-69) teach that 5-aminolevulinic acid may be used to diagnose lead intoxication. Gordon (abstract and col 6 lines 51-67) and Fukuda et al. (col 6 lines 6-20) teach that various protoporphyrins are useful for the diagnosis of other tissue abnormalities (e.g. cancer).

While Blumberg et al. does not teach all of the claim designated skin abnormalities, it would have been obvious to those of ordinary skill in the art that the method of Blumberg et al. could be used for other skin diseases because Gordon and Fukuda et al. teach that the protoporphyrins are useful for the diagnosis of most of the claim designated tissue abnormalities.

The claimed subject matter fails to patentably distinguish over the state of the art as represented by the cited references. Therefore, the claims are properly rejected under 35 U.S.C. § 103.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and shows the state of the art in its field but is not considered by the Examiner to read upon the invention currently being prosecuted in this application.

No Claim is allowed

The processing of this application can be expedited by providing the following information or changes in your next amendment:

- Proper cross-reference to related applications for which priority is claimed under 35 U.S.C. § 120 in the first paragraph of the specification - including current status (M.P.E.P. 201.11)
- Early filing of an Information Disclosure Statement that includes a PTO-1449 form wherein
 the document number, publication date, inventor, country of publication, and US patent
 classification is listed for each patent document and wherein the author, title, journal,
 volume, issue (if known), pages, and year of publication is listed for all journal references

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(M.P.E.P. 609). A timely prior art disclosure by the Applicant aids in a speedy prosecution and helps to insure that the patent granted is both valid and enforceable.

- A descriptive title (M.P.E.P. 606 and 606.01). Please note that 1-2 word titles are generally unacceptable.
- An abstract which is descriptive of the disclosed invention and contains the structure of the active ingredient(s).
- Correction of any ambiguities in the specification which may lead to a printer inquiry, such as blank spaces which appear to be omissions.
- Correction of any typographical errors in the application.

Any inquiry concerning this Office Action or any earlier Office Actions from the Examiner should be directed to Dr. Gary E. Hollinden whose telephone number is 703/308-4521.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is 703/308-1235.

PRIMARY EXAMINER
GROUP 1200